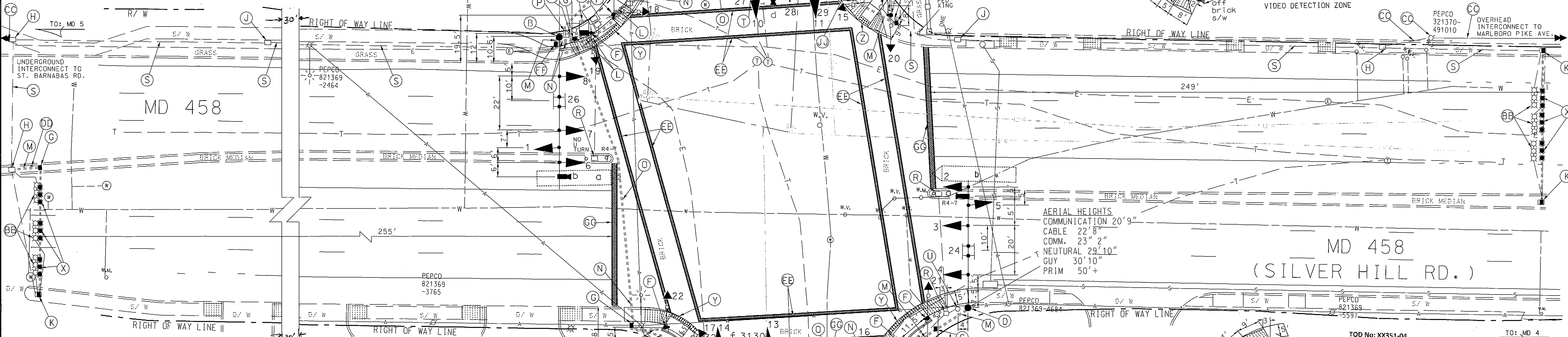


MD 458 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

CONSTRUCTION DETAILS

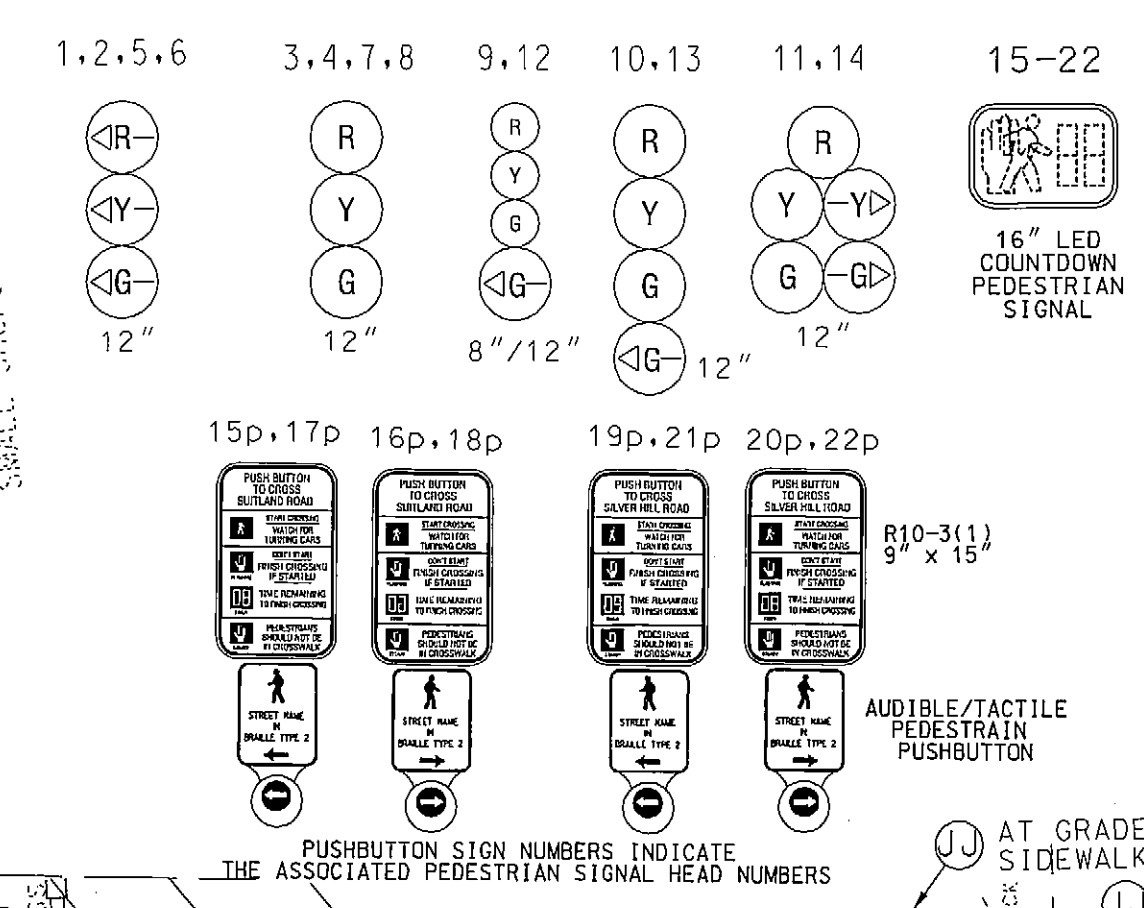
- A. INSTALL NEMA 6 BASE-MOUNTED CABINET AND CONTROLLER WITH NECESSARY EQUIPMENT.
- B. INSTALL 15' "T" STEEL POLE WITH 60' MAST ARM, TRAFFIC SIGNAL HEADS, VIDEO DETECTION CAMERA, AND SIGNS (NOTE: 1-3" SCHEDULE 80 90° PVC BEND).
- C. INSTALL 15' "T" STEEL POLE WITH 50' MAST ARM, TRAFFIC SIGNAL HEADS, LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIBLE PEDESTRIAN PUSHBUTTON STATION, VIDEO DETECTION CAMERAS, AND SIGNS (NOTE: 1-3" SCHEDULE 80 90° PVC BEND).
- D. INSTALL 15' "T" STEEL POLE WITH 50' MAST ARM, TRAFFIC SIGNAL HEADS, VIDEO DETECTION CAMERA, AND SIGNS (NOTE: 1-3" SCHEDULE 80 90° PVC BEND).
- E. INSTALL 15' "T" STEEL POLE WITH 38' MAST ARM, TRAFFIC SIGNAL HEADS, LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIBLE PEDESTRIAN PUSHBUTTON STATION, VIDEO DETECTION CAMERAS, AND SIGNS (1-3" SCHEDULE 80 90° PVC BEND).
- F. INSTALL 10' PEDESTAL POLE WITH BREAK AWAY COUPLINGS, LED COUNTDOWN PEDESTRIAN SIGNAL HEADS, AND AUDIBLE PUSHBUTTON STATION (NOTE: 18"x36" FOUNDATION WITH 1-2" SCHEDULE 80 90° PVC BEND).



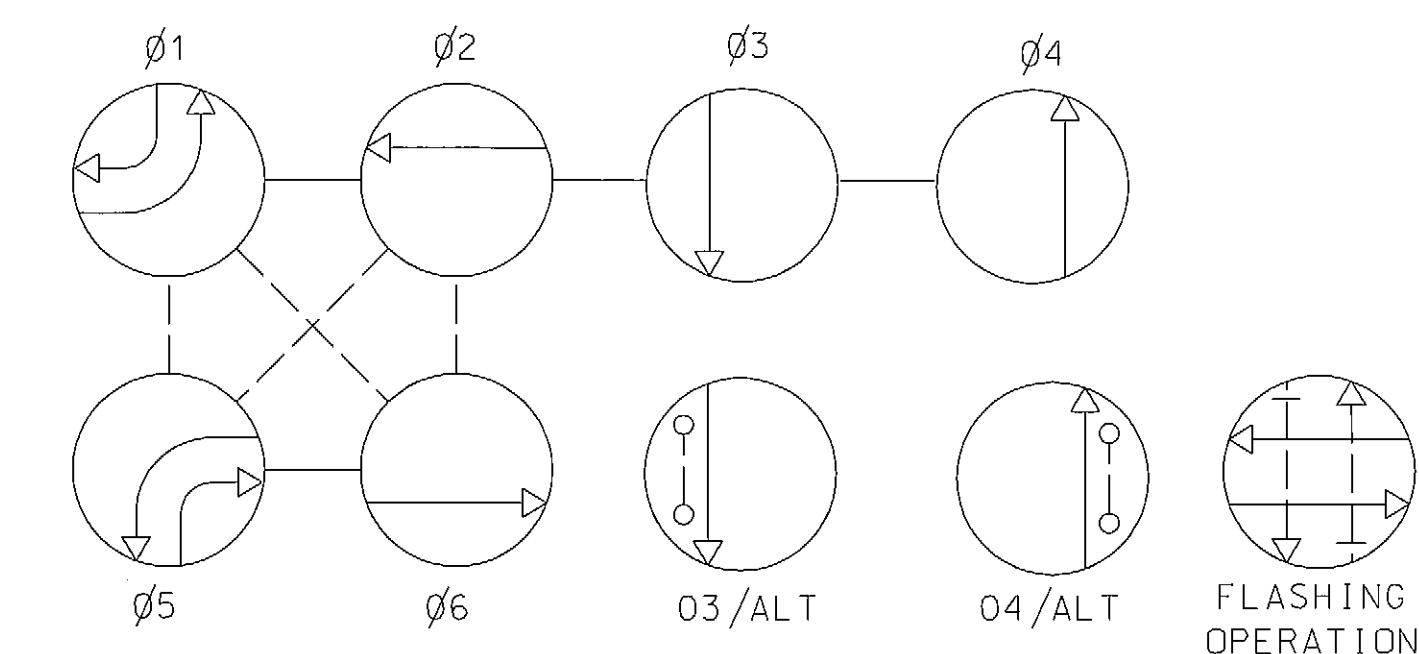
- G. INSTALL ELECTRICAL HANDHOLE.
- H. USE EXISTING HANDHOLE.
- J. USE EXISTING HANDHOLE; PULL BACK DISCONNECTED INTERCONNECT CABLE AND RE-ROUTE TO NEW CONTROLLER/CABINET.
- K. REMOVE EXISTING HANDHOLE AND INSTALL NEW HANDHOLE AT 90° FROM THE CURB.
- L. INSTALL 2" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED.
- M. INSTALL 3" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED.
- N. INSTALL 4" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED.
- O. INSTALL 4" SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED.
- P. INSTALL 100 AMP METERED SERVICE PEDESTAL.
- Q. INSTALL 4" SCHEDULE 80 PVC CONDUIT TO UTILITY POLE # 821369-2464. PROVIDE A 1' STUB AND 40' (THREE LENGTHS) OF 1-CONDUCTOR NO.4 AWG THHN/THWN COILED AT THE BASE FOR THE INSTALLATION OF THE SERVICE.
- R. REMOVE EXISTING HANDHOLE, CAP AND ABANDON CONDUIT.
- S. USE EXISTING CONDUIT, REMOVE UNUSED CABLES.
- T. USE EXISTING HANDHOLE, REMOVE UNUSED CABLES FROM CONDUIT, CAP AND ABANDON UNUSED CONDUITS.
- U. REMOVE EXISTING SIGNAL STRUCTURE, ALL ATTACHED EQUIPMENT AND FOUNDATION 12" BELOW GROUND GRADE.
- V. REMOVE CONTROLLER/CABINET, EQUIPMENT, AND FOUNDATION 12" BELOW GROUND GRADE.

- W. REMOVE EXISTING SIGNS AND SUPPORTS.
- X. INSTALL NON-INVASIVE DETECTORS WITHIN 3" SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED.
- Y. REMOVE EXISTING RAMP AND INSTALL MD 655.12 RAMP AND CURB/GUTTER WITH MD 655.40 DETECTION WARNING SURFACE, 2' WIDE THE LENGTH OF THE RAMP OPENING. (SEE BLOW UP).
- Z. REMOVE EXISTING RAMP AND INSTALL MD 655.11 RAMP AND CURB/GUTTER WITH MD 655.40 DETECTION WARNING SURFACE 2' WIDE, THE LENGTH OF THE RAMP OPENING. (SEE BLOW UP).
- AA. REMOVE AND RE-PLACE EXISTING CONCRETE SIDEWALK.
- BB. DISCONNECT AND ABANDON EXISTING PROBES.
- CC. EXISTING INTERCONNECT CABLE LOCATION.
- DD. REINSTALL BRICK IN MEDIAN AFTER INSTALLATION OF CONDUIT AND HANDHOLE.
- EE. INSTALL 12" HEAT-APPLIED PERMANENT THERMOPLASTIC PAVEMENT MARKING TAPE ALONG THE CONCRETE AT THE BRICK EDGE OF THE CROSSWALK.
- FF. PULL BACK INTERCONNECT CABLE, INSTALL HANDHOLE ONTO EXISTING CONDUIT, RE-ROUTE THE EXISTING INTERCONNECT CABLE TO NEW CONTROLLER/CABINET.
- GG. REMOVE EXISTING STOPLINE, INSTALL NEW IN EXISTING LOCATION WITH 24" WHITE HEAT-APPLIED THERMOPLASTIC PAVEMENT MARKING.
- HH. REMOVE EXISTING BRICK AND REPLACE WITH CONCRETE.
- JJ. REMOVE AND REPLACE BRICK AFTER INSTALLATION OF EQUIPMENT.

PROPOSED SIGNALS



NEMA PHASING



PHASING NOTES:  
1.) PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.  
2.) PHASES ASSOCIATED BY A DASHED LINE MAY OPERATE CONCURRENTLY.

GENERAL NOTES:

1. VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
2. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
3. FOR FINAL PAVEMENT MARKINGS REFER TO THE PAVEMENT MARKING PLANS, OTHER THAN THOSE DETAILED ON THE PLAN. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.
4. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF NEW SIGNAL.
5. ALL NEW LUMINAIRES SHALL BE SUPPLIED WITH A PHOTOCCELL.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINAL AND PROPERLY LABELING EACH CABLE.
7. THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING THE PROPOSED SIGNAL EQUIPMENT. IF UTILITY CONFLICTS ARISE, THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
8. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, AND THE HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO INSTALLATION OF ALL SIGNAL EQUIPMENT.
9. PUSHBUTTON ARROWS ARE TO BE PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.
10. PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR REACHING LESS THAN 18 INCHES FROM A 60" x 60" LEVEL LANDING AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
11. LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTON MUST MEET LOCATION REQUIREMENTS OF MUTCD SEC. 4E.09 AND FIG. 4E.2, AND THE NCHRP PUBLICATION "ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE". IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSH BUTTON LOCATIONS UNTIL A DESIGN WAIVER IS OBTAINED AND APPROVED BY THE DIRECTOR OF THE OFFICE OF TRAFFIC AND SAFETY.

**CENTURY**  
ENGINEERING  
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10710 GILROY ROAD  
HUNT VALLEY, MD 21031  
Phone: (410) 823-8070 Fax: (410) 823-2184

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES	
AERIAL CABLE	A
ELECTRICAL	E
TELEPHONE	T
GAS	G
SEWER	S
WATER	W
CABLE TV	TV

**SHA** STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
MD 458 (SILVER HILL RD.)  
AND MD 218 (SUITLAND RD.)

TRAFFIC SIGNALIZATION

SCALE 1" = 20' ADVERTISED DATE 6-29-73 CONTRACT NO. P-332-001-385	
DESIGNED BY S. RENZI	COUNTY PRINCE GEORGES
DRAWN BY S. RENZI	LOGMILE 16021801.64
CHECKED BY [Signature]	TIMS NO. K-031
F.A.P. NO. US-9692 (1)	TOD NO.
TS NO. 246 F	DRAWING SGI-1 OF 2
SHEET NO. 1 OF 2	

BY: Jherkel